

PO Box 4000 | 44865 Loudoun Water Way | ASHBURN, VA 20146 TEL 571.291.7700 | FAX 571.223.2910

June 8, 2013

Ms. Joan Crowther Commonwealth of Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, VA 22193

Subject:

Waterford Wastewater Treatment Facility

VPDES Permit No. VA0060500

Dear Ms. Crowther:

Please find enclosed Loudoun Water's submission for re-application of the referenced permit.

Should you have any questions, please feel free to contact me at 571.291.7835.

Sincerely,

Bruce Ringrose, PE

Manager of Community Systems

R. Bruce Kingrose

CC: Tom Broderick – Loudoun Water Tom Bonacquisti – Loudoun Water Les Morefield – Loudoun Water Allen Nance – Loudoun Water

Enclosures:

General Form 1

NPDES Form 2A – Application for Permit to Discharge Municipal Waste from POTWs

VPDES Sewage Sludge Permit Application Form

VPDES Permit Application Addendum

Public Billing Notice

Waterford TOPO Map



CONTINUED FROM THE FRONT	٠		i		3			
VII. SIC CODES (4-digit, in order of priority)					A second	(دراع	32 TV - NO 8 - 1	ng kanganan
A. FIRST	-			(specify)			Capalet of No.	. 水流量扩
7 4952 Sewage System			N/A	<u> </u>	N/A			
C. THIRD					D. FOURTI	1	ing saturati	
7 N/A (specify)			N/A	(specify)	N/A			
VIII. OPERATOR INFORMATION			3 16 - 19	1				
	A NA	ME	1. 14. 1.		<u> English state</u>	В	Is the name	listed in
8 Loudoun County Sanitation Authority		1 1 1			1 1 1 1 1 1		owner?	
	 		. 	<u></u>			X YES	J NO
C. STRATUS OF OPERATOR (Enter the appr	opriate letter into	the answer b	ox; if 'Other'	, specify.j	D.	PHONE (area	code & no.)	12 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F = FEDERAL M = PUBLIC (other than f S = STATE O = OTHER (specify)	ederal or state)	M (spec	ify)		\$ 571	291	7835	TI
P = PRIVATE		56		·	13 14		7000	25
E. STREET OF	7 P.O. BOX	· . · · · · · · · · · · · · · · · · · ·		T -				
P.O. Box 4000								
F. CITY OR TOWN	<u> </u>		G.STAT	E H. ZIP CO	DE IX. INDIAN		4 (4) 4 m	4 1250 8
B Ashburn	<u> </u>	,1-1-1-1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	204.40	* * * * <u>* * * * * * * * * * * * * * * </u>	ty located on	Barrell Carlot State Control	
		<u></u>	VA	20146	Y	ES 💥 . 🛈	NO	
X. EXISTING ENVIRONMENTAL PERMITS	Programme and the second	1	40 41 42	47 Starte	· 如果 经 。		Jane of the Sail	: 對於(大人)
A. NPDES (Discharges to Surface Water)	D. PSD (Ati	Emissions fr	om Proposed :	Sources)		r Alfrank		
9 N VA0060500	9 P N/A	\ ·	7 7 7 7	7-1-1				
19 16 17 18 - 30			1 1 1 1	30				
B. UIC (Underground Injection of Fluids)	<u> </u>	E. OTHER	specify j	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	specify)	1 2		
9 U N/A	9 N/A	<u>\</u>			apecity/			•
C. RCRA (Hazardous Wastes)	7-1-1-1-1-1	E. OTHER	'specify)	- Orthon	professional to			3 3253
9 R N/A	9 N/	1 1 1 1 1	T T T T	1 /2	specify)			
\$5 16 17 13	15 16 17 14		The Market Control	(* P 30				
Attach to this application a topographic map	of the area ev	tending to a	t least and n	oile heilead	Cherry day on the	in the state of th	i egyaggigit i kiqittiyayi	-1:43
the outline of the facility, the location of ea	ach of its exist	ing and pro	posed intake	and discha	rge structures.	each of its h	azardous wa	aste
treatment, storage, or disposal facilities, and water bodies in the map area. See instruction	l each well who	ere it inject:	fluids unde	rground. In	clude all sprin	gs, rivers an	d other surf	ace
XII. NATURE OF BUSINESS (provide a brief descri	Significant to be propertied in the	drinenie.						
Anti-Marione of Bookingson (provide 8 thirt descri	puon						•	
The Loudoun County Sanitation Authority	is a public bo	ody politic a	and corpora	ate created	under the pro	visions of t	he Virginia	1
Water and Sewer Authorities Act for the p	ournose of pro	vidina pub	lic water ar	nd. sewer to	unincornorat	ad araas w	ithin Loude	nun.
County, Virginia. The Waterford WWTF is	s owned and d	operated by	y the LCSA	, and it trea	ats sewage flo	w from the	Communit	ty
of Waterford.		•	•		•			
								٠.
				-				
,				,			•	
					•			i
XIII. CERTIFICATION (see instructions)								
I certify under penalty of law that I have pe	ersonally exami	ned and am	familiar wit	h the inform	nation submitte	d in this app	lication and	d all
attachments and that, based on my inquir application, I believe that the information is	y of those per	sons immed	liately reson	nsible for or	btaining the in	formation c	ontained in	the
talse information, including the possibility of	f fine and impri	isonment.	TIVE F GITT OF	are that till	ore are signiff	ont pendities	o rui suuiiiit	cuig 🦠
A. NAME & OFFICIAL TITLE (type or print)		S. SIGNATUR	?E	1/		C. DAT	ESIGNED	· 1.74
Dale Hammes, General Manager	1	1/20	1 Pl	6	•	6	1-/12	
COMMENTS FOR OFFICIAL LIST ONLY		NALL	e U H	ounces		P	11119	
COMMENTS FOR OFFICIAL USE ONLY				d deleda		, 1 . 45 T43	Sample Line	SAM VIEW
C on the second of the second								

EPA Form 3510-1 (8-90)

VPDES Permit Application Addendum

1. Entity to whom the permit is to be issued: Loudoun County Sanitation Authority
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2. Is this facility located within city or town boundaries? Y/N
3. What is the tax map parcel number for the land where this facility is located? TM 28 Parcel 5A
4. For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities?
5. ALL FACILITIES: What is the design average flow of this facility? 0.058 MGD Industrial facilities: What is the max. 30-day avg. production level (include units)? N/A
In addition to the above design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? $Y = \widehat{N}$
If "Yes", please specify the other flow tiers (in MGD) or production levels: Please consider: Is your facility's design flow considerably greater than your current flow? Do you plan to expand operations during the next five years?
6. Nature of operations generating wastewater:municipal
100 % of flow from domestic connections/sources Number of private residences to be served by the wastewater treatment facilities:01-49x 50 or more
0 % of flow from non-domestic connections/sources
7. Mode of discharge:Continuous _x IntermittentSeasonal Describe frequency and duration of intermittent or seasonal discharges:
8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point: Permanent stream, never dry
 Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry Lake or pend at or below the discharge point Other:
9. Approval Date(s): O & M Manual March 1, 1979 Sludge/Solids Management Plan

Have there been any changes in your operations or procedures since the above approval dates? \bigcirc N

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed:	Community Systems Dept.
Owner:	Loudoun Water
Applicant's Address:	PO Box 4000
_	Ashburn, Virginia 20146
Agent's Telephone Number:	571-291-7835
	Bruce Ringrose
Authorizing Agent:	R. Bruce Pingrose Signature

VPDES Permit No. VA0060500 Waterford Sewage Treatment Plant

Please return to:

Joan Crowther VA-DEQ, NRO 13901 Crown Court Woodbridge, VA 22193-1453 Fax: (703) 583-3841 FORM

2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

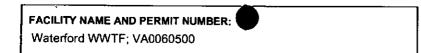
BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd.
 - 2. Is required to have a pretreatment program (or has one in place), or
 - Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)



BASIC APPLICATION INFORMATION

PAF	RT A. BASIC APPI	ICATION INF	ORMATION FOR ALL	APPLICANTS:		···		
All tı	eatment works must	complete quest	ions A.1 through A.8 of thi	s Basic Application	on l	nformation pack	et.	
A.1.	Facility Information	•		<u> </u>				
	Facility name	Waterford W	/astewater Treatment	Facility				
	Mailing Address	P.O. Box 40	00					
		Ashburn, VA	20146					
	Contact person	Dale C. Ham	ımes					
	Title	General Mar	nager					
	Telephone number	571-291-770	00					
	Facility Address	40024 Old V	Vheatland Road					
	(not P.O. Box)	Waterford, V	'A 20197					
A.2.	Applicant Information	on. If the applicar	nt is different from the above,	, provide the followi	ing:			
	Applicant name	Loudoun Co	unty Sanitation Author	rity				
	Mailing Address	P.O. Box 40	00					
		Ashburn, VA	. 20146					
	Contact person	Bruce Ringro	ose	· · · · · · · · · · · · · · · · · · ·				
	Title	Manager, Co	ommunity Systems					
	Telephone number	571-291-783	15					
	Is the applicant the X owner	owner or operat	or (or both) of the treatme	nt works?				
	Indicate whether corre	espondence regar X	rding this permit should be di applicant	rected to the facility	ort	the applicant.	,	
A.3.	Existing Environment (include state-issued particular)	ntal Permits. Propermits).	ovide the permit number of a	ny existing environi	men	ital permits that ha	ve been issued to the treatment works	
	NPDES VA0060	500		PSI)	N/A		
	UIC N/A	 	*-	Oth	er	N/A		
	RCRA N/A			Oth	er	N/A		
A.4 .	Collection System Ir entity and, if known, p	nformation. Provide information	ride information on municipal on the type of collection sys	ities and areas servitem (combined vs.	/ed sep	by the facility. Pro parate) and its own	ovide the name and population of each nership (municipal, private, etc.).	
	Name		Population Served	Type of Colle	ecti	on System	Ownership	
	Waterford Comr	nunity	~275	separate	saı	nitary	LCSA	
								
	Total pop	ulation served	~275					

ACILITY NAME AND PERMIT NUMBER	: •	
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Waterford WWTF; VA0060500

Form Approved 1/14/99 OMB Number 2040-0086

A.5.	Indian Country.					
	a. Is the treatment works located in Indian Cou	intry?				
	YesXNo					
	b. Does the treatment works discharge to a rec through) Indian Country?	ceiving water that is either	in Indian Country or that is i	pstream fron	n (and eventually fl	ows
	YesXNo					
A.6.	Flow. Indicate the design flow rate of the treatm daily flow rate and maximum daily flow rate for e month of "this year" occurring no more than three	ach of the last three years.	. Each year's data must be	was built to ha based on a 1	andle). Also provid 2-month time perio	e the average od with the 12th
	a. Design flow ratemgd					
		Two Years Ago	Last Year	<u>Ihi</u>	s Year	
	b. Annual average daily flow rate	.013	.015	C)18	mgd
	c. Maximum daily flow rate	.081	.091	C	78	mgd
A. 7.	Collection System. Indicate the type(s) of collecontribution (by miles) of each.	ection system(s) used by t	he treatment plant. Check	all that apply.	Also estimate the	percent
	X Separate sanitary sewer				100	%
	Combined storm and sanitary sewer				~0~	%
A. 8.	Discharges and Other Disposal Methods.					
	a. Does the treatment works discharge effluen	t to waters of the U.S.?		X	es	No
	If yes, list how many of each of the following	types of discharge points	the treatment works uses:			
	i. Discharges of treated effluent				~1~	
	ii. Discharges of untreated or partially trea	ted effluent			~0~	· -
	iii. Combined sewer overflow points				~0~	
	iv. Constructed emergency overflows (prior	r to the headworks)			~0~	
	v. Other	,,			~0~	
					<u> </u>	
	 Does the treatment works discharge effluen that do not have outlets for discharge to wat 		r surface impoundments	Y	es X	No .
	If yes, provide the following for each surface	impoundment:				
	Location:				<u>.</u>	
	Annual average daily volume discharged to	surface impoundment(s)			mgd	
	Is discharge continuous or	intermitten	t?			
	c. Does the treatment works land-apply treated	wastewater?		Y	es X	No
	If yes, provide the following for each land ap	plication site:				
	Location:					
	Number of acres:					
	Annual average daily volume applied to site:		Mgd			
	is land application continue	us or inter	mittent?			
	d. Does the treatment works discharge or trans treatment works?	port treated or untreated w	vastewater to another	Y	es X	_ No

FACILITY NAME AND PERMIT NUMBER:
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If transport is by a par	ty other than the applicant, provide:			
Transporter name:	N/A			
Mailing Address:				
Contact person:	N/A			
Title:			·	
Telephone number:				
Name: Mailing Address;	N/A		· · · · · · · · · · · · · · · · · · ·	
Contact person:				
Title:		······································		
Telephone number:			· · ·	
If known, provide the I	NPDES permit number of the treatment works that receives this discharge.			
	ally flow rate from the treatment works into the receiving facility.			_ mgd
Provide the average d	orks discharge or dispose of its wastewater in a manner not included in ove (e.g., underground percolation, well injection)?	Yes	X	No
Provide the average d Does the treatment wo A.8.a through A.8.d at	orks discharge or dispose of its wastewater in a manner not included in ove (e.g., underground percolation, well injection)? wing for each disposal method:	Yes	<u> </u>	- No
Provide the average d Does the treatment wo A.8.a through A.8.d at If yes, provide the folic	ove (e.g., underground percolation, well injection)?	Yes	<u>x</u>	_ No
Provide the average d Does the treatment wo A.8.a through A.8.d at If yes, provide the folic Description of method	ove (e.g., underground percolation, well injection)? wing for each disposal method:	Yes	<u>X</u>	_ No

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FACILITY NAME AND PERMIT NUMBER:

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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

a. b. c. d.		Outfall number Location	Waterford (City or town, if applicable) Loudoun (County)				20197 (Zip Code)	
c. d.		Location	(City or town, if applicable) LOUGOUN (County)				(Zip Code)	
d.	٠.		(County)				(Zip Code)	
d.	٠.		(County)				VA	
d.	١.		39 degrees 11' 30" N				(State) 77 degrees 37' 00" W	
d.			(Latitude)				(Longitude)	
		Distance from shore (if a	pplicable)		<u>,</u> .	ft.		
e.	۱.	Depth below surface (if a	applicable)			_ ft.		
	١.	Average daily flow rate		0.016		_ mgd		
f.	•	Does this outfall have eit discharge?	her an intermittent or a periodic	X	Yes		No (go to A.9.g.)	
		If yes, provide the followi	ng information:		_		(30000000)	
		Number of times per yea	r discharge occurs:	28 week	s	<u> </u>		
		Average duration of each	n discharge:	5 days				
		Average flow per dischar	ge:	0.042			mgd	
		Months in which discharg	ge occurs:	varies y	ear rour	<u>nd</u>	 _	
g.		Is outfall equipped with a	diffuser?	x	_ Yes		No No	
10. De	es	scription of Receiving W	Vaters.					
a.		Name of receiving water	South Fork Cate	octin Creek				
b.		Name of watershed (if kn	nown)	/liddle Poto	mac-Cato	octin		
		United States Soil Conse	ervation Service 14-digit watershe	ed code (if kno	wn):			
C.		Name of State Managem	ent/River Basin (if known):		Potomac	River		
		United States Geological	Survey 8-digit hydrologic catalog	ging unit code	(if known):		02070008	
d.		Critical low flow of receiving		chroni	s	c	: :fs	
e.		Total hardness of receiving	ng stream at critical low flow (if a					
							·	

FACILITY NAME AND PERMIT NUMBER:	
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A.11. Description of	Treatment.										
a. What levels	of treatment a	e provid	ed? Ch	eck all that a	apply	<i>j</i> .					
	Primary		<u> </u>	C Sec	cond	lary					
	Advanced		_	Oth	ner.	Describe:					
b. Indicate the	following remo	val rates	(as ap	plicable):							
Design BOI	o _s removal <u>or</u> D	esign C	BOD ₅ n	emoval			;	>90	%		
Design SS r	emoval							unstated	%		
Design P re	moval							unstated	%		
Design N re	moval							unstated	%		
Other			_					unstated	%		
	of disinfection is tion/dechlor			fluent from t	his o	outfall? If disinfe	ction varies by	season, plea	se describe.		
If disinfection	n is by chlorina	tion, is c	dechlori	nation used	for t	his outfall?	·	X Y6	es	No	
d. Does the tre	atment plant ha	ave post	aeratio	n?			-	Ye	x X	No	
minimum, efflu Outfall number:	ent testing da	ta must 00	be bas	sed on at le	ast	three samples	and must be	no more tha	n four and one-ha	0 CFR Part 136. At a alf years apart.	
PARAM	IETER		N	MAXIMUM DAILY VALUE				AVE	RAGE DAILY VA.	UE	
			Value			Units	Value		Units	Number of Samples	
pH (Minimum)			6.	2		S.U.				391	
pH (Maximum)			8.	3		s.u.				391	
Flow Rate			0.067			MGD	0.042	2	MGD	391	
Temperature (Winter)			0.			С	8.6		С	184	
Temperature (Summer		m and a		0.0		С	21.7		C	207	
POLLUTA		M		M DAILY	De	AVERAGE DAILY		HARGE	ANALYTICAL METHOD	ML / MDL	
	Co		nc. Units			Conc.	Units	Number of Samples			
ONVENTIONAL AND	NONCONVEN	ITIONAL	_ COMI	POUNDS.							
BIOCHEMICAL OXYGE	N BOD-5	40.	3	mg/L	\bot	8.74	mg/l	91	5210 B.	2 mg/L	
EMAND (Report one)	CBOD-5				\downarrow						
ECAL COLIFORM E.			2.0	GeoMea	n	1.2	GeoMean	60	SM4223B	1 per 100 mls	
OTAL SUSPENDED SO	DLIDS (TSS)	12	.9	mg/L		5.3	mg/l	89	2540 D.	4 mg/L	
				=	MF	OF DAD	T A				

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

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FACILITY NAME AND PERMIT NUMBER:

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ВА	SI	C APPLICATION INFORMATION
PAR	<u>π</u>	B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All as	plic	cants with a design flow rate ≥ 0.1 rngd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	łn	flow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.
	_	gpd
	Br	riefly explain any steps underway or planned to minimize inflow and infiltration.
	_	
	_	
B.2.	ma	ppographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This ap must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire ea.)
	a.	The area surrounding the treatment plant, including all unit processes.
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	¢.	
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	-	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
	pov dec	ocess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup wer sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and chlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between atment units. Include a brief narrative description of the diagram.
B.4.	Оp	eration/Maintenance Performed by Contractor(s).
	Are cor	e any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a ntractor?YesNo
	lf ye if ne	es, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages ecessary).
	Nar	me:
	Mai	iling Address:
	Tel	ephone Number:
	Res	sponsibilities of Contractor.
_		
†	unc trea	neduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or completed plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the atment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for the characteristic separate responses to question B.5 for the characteristic separate responses to question B.5.
;	a.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
١	b.	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
		YesNo

END OF PART B.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

OTHER

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99 OMB Number 2040-0086					
Waterford WWTF; VA0060500						
BASIC APPLICATION INFORMAT	TION					
DADT C CERTIFICATION						
PART C. CERTIFICATION						
applicants must complete all applicable sections of Fo	m 2A, as explained in the Appli ation statement, applicants confi	ine who is an officer for the purposes of this certification. All cation Overview. Indicate below which parts of Form 2A you have m that they have reviewed Form 2A and have completed all sections				
Indicate which parts of Form 2A you have co	empleted and are submitting:					
X Basic Application Information packet Supplemental Application Information packet:						
Part D (Expanded Effluent Testing Data)						
Part E (Toxicity Testing: Biomonitoring Data)						
Part F (Industrial User Discharges and RCRA/CERCLA Wastes)						
	Part G (Combined	Sewer Systems)				
ALL APPLICANTS MUST COMPLETE THE FOLLO	WING CERTIFICATION.					
to assure that qualified personnel properly gather and system or those persons directly responsible for gather	evaluate the information submitted in the information, the information, the information is the information in the information in the information is the information in the information in the information is the information in the information in the information is the information in the information in the information is the information in the information i	der my direction or supervision in accordance with a system designed ed. Based on my inquiry of the person or persons who manage the tion is, to the best of my knowledge and belief, true, accurate, and on, including the possibility of fine and imprisonment for knowing				
Name and official title Dale C. Hammes	s, General Manager					
Signature	Cofanine					
Telephone number 571-291-7700						
Date signed 6/7//	3					
Upon request of the permitting authority, you must sub or identify appropriate permitting requirements.	emit any other information neces	sary to assess wastewater treatment practices at the treatment works				

SEND COMPLETED FORMS TO:

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER: Waterford WWTF: VA0060500

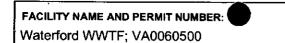
SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

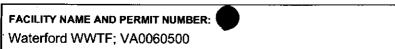
Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

	MAXIMUM DAILY DISCHARGE Conc. Units Mass Units			AVERAGE DAILY DISCHARGE							
	Conc.				Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
METALS (TOTAL RECOVERABLE), CYANIDE, I	PHENOL	S, AND H	IARDNES	S.						- -
ANTIMONY											
ARSENIC											
BERYLLIUM			ı								Į.
CADMIUM											
CHROMIUM											
COPPER											
LEAD											
MERCURY											
NICKEL										-	
SELENIUM											
SILVER											
THALLIUM											
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											···
HARDNESS (AS CaCO ₃)											
Use this space (or a separate sheet)	to provide in	omation	on other	metals re	quested b	y the per	mit writer.		_		
		ŀ									





Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Conc. Units Mass Conc. **ANALYTICAL** Units Units Units ML/ MDL Mass Number **METHOD** of Samples **VOLATILE ORGANIC COMPOUNDS. ACROLEIN ACRYLONITRILE** BENZENE **BROMOFORM CARBON TETRACHLORIDE** CLOROBENZENE CHLORODIBROMO-METHANE CHLOROETHANE 2-CHLORO-ETHYLVINYL ETHER CHLOROFORM DICHLOROBROMO-METHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE TRANS-1,2-DICHLORO-ETHYLENE 1,1-DICHLOROETHYLENE 1,2-DICHLOROPROPANE 1,3-DICHLORO-PROPYLENE **ETHYLBENZENE** METHYL BROMIDE METHYL CHLORIDE METHYLENE CHLORIDE 1,1,2,2-TETRACHLORO-ETHANE **TETRACHLORO-ETHYLENE** TOLUENE



Outfall number: (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY **AVERAGE DAILY DISCHARGE** DISCHARGE Mass ANALYTICAL ML/ MDL Conc. Units Units Conc. Units Mass Units Number of METHOD Samples 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE TRICHLORETHYLENE VINYL CHLORIDE Use this space (or a separate sheet) to provide information on other volatile organic compounds requested by the permit writer. ACID-EXTRACTABLE COMPOUNDS P-CHLORO-M-CRESOL 2-CHLOROPHENOL 2,4-DICHLOROPHENOL 2.4-DIMETHYLPHENOL 4,6-DINITRO-O-CRESOL 2,4-DINITROPHENOL 2-NITROPHENOL 4-NITROPHENOL PENTACHLOROPHENOL PHENOL 2,4,6-TRICHLOROPHENOL Use this space (or a separate sheet) to provide information on other acid-extractable compounds requested by the permit writer. BASE-NEUTRAL COMPOUNDS. **ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE** BENZIDINE BENZO(A)ANTHRACENE

BENZO(A)PYRENE											
FACILITY NAME AND PERMIT N	IUMBER	:	• ··· · · · · · · · · · · · · · · · · ·		4						roved 1/14/99
Waterford WWTF; VA0060	500									OMB Num	ber 2040-0086
Outfall number:									United Stat	es.)	
POLLUTANT		DISCI	JM DAIL' IARGE		^\		E DAILY				
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE										·	
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER											
BIS (2-CHLOROISO-PROPYL) ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER									·		
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE											
DI-N-BUTYL PHTHALATE										-	
DI-N-OCTYL PHTHALATE											
DIBENZO(A,H) ANTHRACENE				_							
1,2-DICHLOROBENZENE											
1,3-DICHLOROBENZENE											
1,4-DICHLOROBENZENE											
3,3-DICHLOROBENZIDINE											
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE									,		
						_					

2,4-DINITROTOLUENE

2,6-DINITROTOLUENE

1,2-DIPHENYLHYDRAZINE											
FACILITY NAME AND PERMIT N	IUMBER	:						•			oved 1/14/99
Waterford WWTF; VA0060	500									OMB NUM	ber 2040-0086
Outfall number:									United State	es.)	
POLLUTANT			IM DAILY IARGE	′	A۱	/ERAGE	DAILY	DISCHA	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
FLUORANTHENE											
FLUORENE											
HEXACHLOROBENZENE											
HEXACHLOROBUTADIENE											
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE											
INDENO(1,2,3-CD)PYRENE											
ISOPHORONE											
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE											· • • • • • • • • • • • • • • • • • • •
N-NITROSODI- METHYLAMINE											
N-NITROSODI-PHENYLAMINE											
PHENANTHRENE											
PYRENE											
1,2,4-TRICHLOROBENZENE											
Use this space (or a separate sheet) to	provide in	formation	on other	base-neu	tral compo	ounds red	uested b	y the per	mit writer.	-	
Healthis source (or a series to the entire	provide '-	form =41c	A 645 -		<u> </u>	Alada : 1					
Use this space (or a separate sheet) to	provide in	iomation	on other	pollutants	s (e.g., pe:	sticides) i	requested	by the p	ermit writer.		
						L			•		
				ENF) OE 1	3 A D T					

END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE



Waterford WWTF: VA0060500

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information

	that contain all of the information requ	A methods were not used, report the re- ested below, they may be submitted in p tion Overview for directions on which of	place of Part E.
E.1. Required Tests.			
Indicate the number of whole eff	luent toxicity tests conducted in the pa	est four and one-half years	
chronic acute	asin toxicity toxic scribbotics in the po	ist four and one-han years.	
E.2. Individual Test Data. Complete the column per test (where each species	following chart for each whole effluent constitutes a test). Copy this page if r	toxicity test conducted in the last four a	nd one-half years. Allow one
	Test number:	Test number:	Test number:
a. Test information.			
Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods follower	d.		
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection method	d(s) used. For multiple grab samples,	indicate the number of grab samples u	sed.
24-Hour composite			
Grab			
d. Indicate where the sample was tal	ken in relation to disinfection. (Check a	all that apply for each)	
Before disinfection			
After disinfection			
After dechlorination			

FACILITY NAME AND PERMIT NUMBER:
Waterford WWTF; VA0060500

Form	Approve	d 1/14/99
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	Test number:	Test number:	Test number:
e. Describe the point in the treatmen	it process at which the sample was co	llected.	
Sample was collected:			
f. For each test, include whether the	test was intended to assess chronic to	oxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performed	I.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	tory water, specify type; if receiving water	ater, specify source.	
Laboratory water			_
Receiving water			
i. Type of dilution water. It salt water	r, specify "natural" or type of artificial s	sea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used	for all concentrations in the test series	5.	
			- "
k. Parameters measured during the	test. (State whether parameter meets	test method specifications)	
рН			
Salinity			
Temperature			V-1
Ammonia			
Dissolved oxygen			
i. Test Results.			
Acute:			
Percent survival in 100% effluent	%	%	%
LC ₅₀			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBER: Waterford WWTF; VA0060500	:		Form Approved 1/14/99 OMB Number 2040-0086
Chronic:		· · · · · · · · · · · · · · · · · · ·	
NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			
m. Quality Control/Quality Assurance).		
is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			
	describe:		
E.4. Summary of Submitted Biomonitoring of toxicity, within the past four and one results.	ng Test Information. If you have s -half years, provide the dates the info	submitted biomonitoring test information promation was submitted to the permitting	, or information regarding the cause g authority and a summary of the
Date submitted:	(MM/DD/YYYY)		
Summary of results: (see instructions	s)		
		:	
	END OF PA	ART E.	***************************************

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

FACILITY NAME AND PERMIT NUMBER:

Waterford WWTF; VA0060500

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.

comp	plete Part F.
GEN	NERAL INFORMATION:
F.1.	Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?
F.2.	Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.
	a. Number of non-categorical SIUs.
	b. Number of CIUs.
SIG	NIFICANT INDUSTRIAL USER INFORMATION:
	oly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and ide the information requested for each SIU.
F.3.	Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.
	Name:
	Mailing Address:
F.4.	Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.5.	Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):
	Raw material(s):
F.6.	Flow Rate.
	 a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
	 Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.
	gpd (continuous orintermittent)
F.7.	Pretreatment Standards. Indicate whether the SIU is subject to the following:
	a. Local limitsYesNo
	b. Categorical pretreatment standardsYesNo
	If subject to categorical pretreatment standards, which category and subcategory?

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Waterford WWTF; VA0060500 F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years? ___Yes ___No If yes, describe each episode. RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE: F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? ___Yes ___No (go to F.12.) F.10. Waste Transport. Method by which RCRA waste is received (check all that apply): _Truck Rail _Dedicated Pipe F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units). EPA Hazardous Waste Number <u>Amount</u> <u>Units</u> CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER: F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities? Yes (complete F.13 through F.15.) No Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site. F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years). F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? If yes, describe the treatment (provide information about the removal efficiency): b. Is the discharge (or will the discharge be) continuous or intermittent? _Continuous Intermittent If intermittent, describe discharge schedule.

END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Waterford WWTF; VA0060500

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
 - a. All CSO discharge points.
 - b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
 - c. Waters that support threatened and endangered species potentially affected by CSOs.
- **G.2.** System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
 - a. Locations of major sewer trunk lines, both combined and separate sanitary.
 - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
 - Locations of in-line and off-line storage structures.
 - d. Locations of flow-regulating devices.
 - e. Locations of pump stations.

CSC	<u> </u>	JTFALLS:			
Com	plet	e questions G.3 throug	h G.6 once for each CSO discharge point.	•	
G.3.	Des	cription of Outfall.			
	a.	Outfall number			
	b.	Location	(City or town, if applicable)	(Zip Code)	
			(- 9,	(2.5 0000)	
			(County)	(State)	
			(Latitude)	(Longitude)	
	c.	Distance from shore (if a	applicable)	ft.	
	d.	Depth below surface (if a	applicable)	ft.	
	e.	Which of the following w	ere monitored during the last year for this CSO	?	
		Rainfall	CSO pollutant concentrations	CSO frequency	
		CSO flow volume	Receiving water quality		
	f.	How many storm events	were monitored during the last year?		
G.4.	csc	Events.			
	a.	Give the number of CSC	events in the last year.		
		events (_ actual or approx.)		
	b.	Give the average duration	n per CSO event.		
		hours (_ actual or approx.)		

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Waterford WWTF; VA0060500 c. Give the average volume per CSO event. ___ million gallons (____ actual or ____ approx.) d. Give the minimum rainfall that caused a CSO event in the last year. inches of rainfall G.5. Description of Receiving Waters. a. Name of receiving water: b. Name of watershed/river/stream system: United States Soil Conservation Service 14-digit watershed code (if known): c. Name of State Management/River Basin: United States Geological Survey 8-digit hydrologic cataloging unit code (if known): G.6. CSO Operations. Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

VPDES PERMIT NUMBER: VA0060550

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All app	plicants must complete Section A (General Information).
2.	Will th	is facility generate sewage sludge?Yes _X_No
	Will th	is facility derive a material from sewage sludge?Yes _X_No
		answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material d From Sewage Sludge).
3.	Will th	is facility apply sewage sludge to the land?Yes _X_No
	Will se	wage sludge from this facility be applied to the land? Yes X No
	If you a	answered No to both questions above, skip Section C.
	If you a	answered Yes to either, answer the following three questions:
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo
	If you a	answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you a	answered Yes to a, b or c, skip Section C.
1 .	Do you	own or operate a surface disposal site?Yes _XNo
	If Yes,	complete Section D (Surface Disposal).

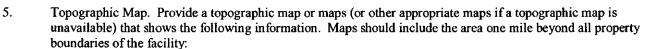
SECTION A. GENERAL INFORMATION

All applicants must complete this section.

a. Facility name: b. Contact person: Title: General Manager Phone: 571-291-7700 c. Mailing address: P.O. Box 4000 Ashburn, VA 20146 d. Facility location: Street or Route #: 40024 Old Wheatland Road County: Loudoun City or Town: Waterford State: VA Zip: 20197 e. Is this facility a Class I sludge management facility? Yes X No f. Facility design flow rate: 0.058 mgd g. Total population served: - 275 h. Indicate the type of facility: X Publicly owned treatment works (POTW) Privately owned treatment works Federally owned treatment works Blending or treatment operation Surface disposal site Other (describe): 2. Applicant Information. If the applicant is different from the above, provide the following: a. Applicant name: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000 Ashburn, VA 20146 c. Contact person: Fruce Ringrose Title: Manager, Community Systems Phone: 571-291-7835 d. Is the applicant the owner or operator (or both) of this facility? X owner X operator Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) facility X applicant 3. Permit Information. a. Facility's VPDES permit number (if applicable): VA0060500 b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number: Type of Permit: Type of Permit: Type of Permit: Type of Permit not ladio Country? Type V No V N	1.	Facilit	y Information.
Title: General Manager Phone: 571-291-7700 c. Mailing address: P.O. Box 4000 Ashburn, VA 20146 d. Facility location: Street or Route #: 40024 Old Wheatland Road County: Loudoun City or Town: Waterford State: VA Zip: 20197 e. Is this facility a Class I sludge management facility? Yes X No f. Facility design flow rate: 0.058 mgd g. Total population served: -275 h. Indicate the type of facility: X Publicy owned treatment works (POTW) Privately owned treatment works Federally owned treatment works Blending or treatment operation Surface disposal site Other (describe): 2. Applicant Information. If the applicant is different from the above, provide the following: a. Applicant anne: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000 Ashburn, VA 20146 c. Contact person: Bruce Ringrose Title: Manager, Community Systems Phone: 571-291-7835 d. Is the applicant the owner or operator (or both) of this facility? X_owner X_operator Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) facility X_applicant 3. Permit Information. a. Facility's VPDES permit number (if applicable): VA0060500 b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number: Type of Permit: none 1. Type of Permit: 1. T		a.	Facility name: Waterford WWTF
Phone: 571-291-7700 c. Mailing address: P.O. Box 4000 Ashburn, VA 20146 d. Facility location: Street or Route #: 40024 Old Wheatland Road County: Loudoun City or Town: Waterford State: VA Zip: 20197 e. Is this facility a Class I sludge management facility?YesXNo f. Facility design flow rate:		b.	Contact person: Dale C. Hammes
c. Mailing address: P.O. Box 4000 Ashburn, VA 20146 d. Facility location: Street or Route #: 40024 Old Wheatland Road County: Loudoun City or Town: Waterford State: VA Zip: 20197 e. Is this facility a Class I sludge management facility? Yes X No f. Facility design flow rate: 0.058 mgd g. Total population served: ~275 h. Indicate the type of facility: X Publicly owned treatment works (POTW) Privately owned treatment works Federally owned treatment works Blending or treatment operation Surface disposal site Other (describe): 2. Applicant Information. If the applicant is different from the above, provide the following: a. Applicant name: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000 Ashburn, VA 20146 c. Contact person: Bruce Ringrose Title: Manager, Community Systems Phone: 571-291-7835 d. Is the applicant the owner or operator (or both) of this facility? X owner X operator e. Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) facility X applicant 3. Permit Information. a. Facility's VPDES permit number (if applicable): VA0060500 b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number: Type of Permit:			Title: General Manager
Ashburn, VA 20146 d. Facility location: Street or Route #: 40024 Old Wheatland Road County: Loudoun City or Town: Waterford State: VA Zip: 20197 e. Is this facility a Class I sludge management facility? Yes X No f. Facility design flow rate: 0.058 mgd g. Total population served: -275 h. Indicate the type of facility: X Publicly owned treatment works (POTW) Privately owned treatment works Blending or reatment operation Surface disposal site Other (describe): 2. Applicant Information. If the applicant is different from the above, provide the following: a. Applicant name: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000 Ashburn, VA 20146 c. Contact person: Bruce Ringrose Title: Manager, Community Systems Phone: 571-291-7835 d. Is the applicant the owner or operator (or both) of this facility? X owner X operator e. Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) facility X applicant 3. Permit Information. a. Facility's VPDES permit number (if applicable): VA0060500 b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number: Type of Permit:			Phone: 571-291-7700
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Street or Route #: 40024 Old Wheatland Road County: Loudoun City or Town: Waterford State: VA Zip: 20197 e. Is this facility a Class I sludge management facility? Yes X_No f. Facility design flow rate: 0.058 mgd g. Total population served: ~275 h. Indicate the type of facility: X Publicly owned treatment works (POTW) Privately owned treatment works Federally owned treatment works Blending or reatment operation Surface disposal site Other (describe): 2. Applicant Information. If the applicant is different from the above, provide the following: a. Applicant aname: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000 Ashburn, VA 20146 c. Contact person: Bruce Ringrose Title: Manager, Community Systems Phone: 571-291-7835 d. Is the applicant the owner or operator (or both) of this facility? X owner X operator e. Should correspondence regarding this permit be directed to the facility or the applicant? (Check one) facility X applicant J Permit Information. a. Facility's VPDES permit number (if applicable): VA0060500 b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number: Type of Permit: none 4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this			Ashburn, VA 20146
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X Publicly owned treatment works (POTW)		g.	Total population served: ~275
		h.	Indicate the type of facility:
Federally owned treatment worksBlending or treatment operation			X Publicly owned treatment works (POTW)
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Surface disposal site Other (describe): 2. Applicant Information. If the applicant is different from the above, provide the following: a. Applicant name: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000 Ashburn, VA 20146 c. Contact person: Bruce Ringrose Title: Manager, Community Systems Phone: 571-291-7835 d. Is the applicant the owner or operator (or both) of this facility? X_owner X_operator e. Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)facility X_applicant 3. Permit Information. a. Facility's VPDES permit number (if applicable): VA0060500 b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number: Type of Permit:			Federally owned treatment works
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a. Applicant name: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000			Other (describe):
a. Applicant name: Loudoun County Sanitation Authority b. Mailing address: P.O. Box 4000	2.	Applio	cant Information. If the applicant is different from the above, provide the following:
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 facilityX applicant 3. Permit Information. a. Facility's VPDES permit number (if applicable):			X owner X operator
 Permit Information. Facility's VPDES permit number (if applicable): <u>VA0060500</u> List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices:		e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
a. Facility's VPDES permit number (if applicable): VA0060500 b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number:			facility X applicant
b. List on this form or an attachment, all other federal, state or local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices: Permit Number:	3.	Permit	t Information.
or applied for that regulate this facility's sewage sludge management practices: Permit Number: none none Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this		a.	Facility's VPDES permit number (if applicable): <u>VA0060500</u>
Permit Number: Type of Permit: none Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this		b.	
4. Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this			or applied for that regulate this facility's sewage sludge management practices:
 Indian Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this 			Permit Number: Type of Permit:
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, and any Bernard and another than the same of an angle of the same of the sam			
, and any Bernard and another than the same of an angle of the same of the sam			
	4.	Indian	Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this

FACILITY NAME: Waterford WWT





- Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
- b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 'n

	will be employe treating sewage		nit including all	processes used for colle	cting, dewatering, storing, or and all methods used for pathoger
7.	generation, treat If yes, provide the Name:	mation. Are any operationa ment, use or disposal the res he following for each contra	ponsibility of a	contractor? _Yes X	No
	Mailing address				
	Street or P.O. B		^		
			State:	Zip:	
	Phone: ()	leral, State or Local Permit N			
	If the contractor		d/or disposal of	the sewage sludge, prov	ide a description of the service to
8.	the pollutants w expected use or	hich limits in sewage sludge	have been estab must be based o	lished in 9 VAC 25-31-	ewage sludge monitoring data for 10 et seq. for this facility's taken at least one month apart
	POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
	Arsenic	No sludge has been dre	dged in the last	4.5 years.	<u> </u>
	Cadmium				
li .			,		
	Chromium	1			
	Chromium				
	Chromium Copper				
	Chromium Copper Lead				
	Chromium Copper Lead Mercury				
	Chromium Copper Lead Mercury Molybdenum				
	Chromium Copper Lead Mercury Molybdenum Nickel				
9.	Chromium Copper Lead Mercury Molybdenum Nickel Selenium Zinc Certification. R determine who i completed and a	s an officer for purposes of t	his certification	Indicate which parts of	

Section D (Surface Disposal)

FACILITY NAME: Waterford WW



I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

6/7/13

Name and official/fitle: Dale C. Hammes, General Manager

Telephone number: 571-291-7700

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: Waterford WWTF



SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage studge or derives a material from sewage studge

1.		Amount Generated On Site. Total dry metric tons per 365-day period generated at your facility: dry metric tons				
2.	dispos	ant Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive the sludge from more than one facility, attach additional pages as necessary. Facility name: Contact Person: Title: Phone ()				
	c.	Mailing address: Street or P.O. Box: City or Town: State: Zip:				
	d.	Facility Address: (not P.O. Box)				
	e. f.	Total dry metric tons per 365-day period received from this facility: dry metric tons Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:				
3.	Treatment Provided at Your Facility:					
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass BNeither or unknown				
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge:				
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown				
	· đ.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:				
		e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above:				
4.	Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One of Vector Attraction Reduction Options 1-8 (EQ Sludge).					
	(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.) a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:					
	b.	dry metric tons Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?				
		YesNo				
5.	Sale o	r Give-Away in a Bag or Other Container for Application to the Land.				

FACILITY NAME: Waterford WWTF

6.



(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.) Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or ь. given away in a bag or other container for application to the land. Shipment Off Site for Treatment or Blending. (Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) Receiving facility name: b. Facility contact: Title: Phone: Mailing address: c. d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: dry metric tons List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices: Permit Number: Type of Permit: f. Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? ___Yes ___No Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? Neither or unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge: g. Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? Yes No Which vector attraction reduction option is met for the sewage sludge at the receiving facility? Option 1 (Minimum 38 percent reduction in volatile solids) ___ Option 2 (Anaerobic process, with bench-scale demonstration) ___ Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) ___Option 8 (90 percent solids with unstabilized solids) None unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: h. Does the receiving facility provide any additional treatment or blending not identified in f or g above? If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above: i. If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or givej away for application to the land? Yes No If yes, provide a copy of all labels or notices that accompany the product being sold or given away.

Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally

k.

FACILITY NAME: Waterford WWT VPDES PERMIT NUMBER: VA0060550 Yes No. If no, provide description and specification on the vehicle used to used for such purposes? transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported. 7. Land Application of Bulk Sewage Sludge. (Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6; complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.) Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: dry b. Do you identify all land application sites in Section C of this application? __Yes __No If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions). Are any land application sites located in States other than Virginia? ___ Yes No ¢. If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV). 8. Surface Disposal. (Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.) Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal a. dry metric tons b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? _Yes ___No If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary. Site name or number: C. d. Contact person: Title: Phone: () Contact is: __Site Owner __Site operator Mailing address. e. Street or P.O. Box: City or Town: State: Zip: Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface dry metric tons List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of g. all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site: Permit Number: Type of Permit: Incineration.

9.

(Complete Question 9 if sewage studge from your facility is fired in a sewage studge incinerator.)

- Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge a. __dry metric tons
- Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? b.

If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.

- Incinerator name or number: c.
- d. Contact person:

FACILITY NAME: Waterford WWTF

FACI	шихг	NAME: Wateriord WWIF VPDES PERMIT NUMBER: VAUUOUSS
		Title:
		Phone: ()
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
	₽.	firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
		1 spe of 1 crime.
		· · · · · · · · · · · · · · · · · · ·
10.	Dian	ocal in a Municipal Calid Weste Landfil
10.		osal in a Municipal Solid Waste Landfill.
	(Com	plete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information
		ch municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one cipal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	а. b .	Contact person:
	U.	•
		Title:
		Phone: ()
		Contact is:Landfill OwnerLandfill Operator
	c.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	d.	Landfill location.
		Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
		dry metric tons
		f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate th
		operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
	g.	Does sewage studge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
	Φ.	VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		YesNo
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
	11.	Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo
	i.	
	1.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
		be watertight and covered? Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the
		week and time of the day sewage sludge will be transported.



SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply: The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead). Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied. 1. Identification of Land Application Site. Site name or number: Site location (Complete i and ii) b. Street or Route#: County: City or Town: ___ ____ State: _____ Zip: Longitude: ii. Latitude: Method of latitude/longitude determination USGS map ____ Filed survey Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) Ċ. that shows the site location. 2. Owner Information. Are you the owner of this land application site? Yes No If no, provide the following information about the owner: b. Name: Street or P.O. Box: City or Town: ____ State: Zip: Phone: (3. Applier Information: Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? __Yes __No b. If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town:____ State: Zip: Phone: (List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person C. who applies sewage sludge to this land application site: Permit Number: Type of Permit: 4. Site Type. Identify the type of land application site from among the following: ___Reclamation site Agricultural land Public contact site Other. Describe Vector Attraction Reduction. 5. Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? Yes ___No If yes, answer a and b. Indicate which vector attraction reduction option is met: ___ Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Describe, on this form or on another sheet of paper, any treatment processes used at the land application site b. to reduce the vector attraction properties of sewage sludge:

6. Cumulative Loadings and Remaining Allotments.



(Complete Question 6 only if the sewage sludge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates (CPLRs) - see instructions.) Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? Yes No If no, sewage sludge subject to the CPLRs may not be applied to this site. If yes, provide the following information: Permitting authority: Contact person: Phone:() Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, b. 1993? __Yes __No If no, skip the rest of Question 6. If yes, answer questions c - e. Site size, in hectares: (one hectare = 2.471 acres) C. Provide the following information for every facility other than yours that is sending or has sent sewage d. sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Zip: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: e. Cumulative loading Allotment remaining Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg) pH (S. U.) Percent Solids (%) Ammonium Nitrogen (mg/kg) Nitrate Nitrogen (mg/kg) Total Kjeldahl Nitrogen (mg/kg) Total Phosphorus (mg/kg) Total Potassium (mg/kg) Alkalinity as CaCO₃* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

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8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

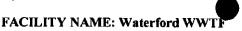
- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)
 - 5) Sinkholes
 - 6) Underground and/or surface mines
 - 7) Mine pool (or other) surface water discharge points
 - 8) Mining spoil piles and mine dumps
 - 9) Quarry(s)
 - 10) Sand and gravel pits
 - 11) Gas and oil wells
 - 12) Diversion ditch(s)
 - 13) Agricultural drainage ditch(s)
 - 14) Occupied dwellings, including industrial and commercial establishments
 - 15) Landfills or dumps
 - 16) Other unlined impoundments
 - 17) Septic tanks and drainfields
 - 18) Injection wells
 - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

11	۱.	Ground	Water	M	onit	oring.
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Are any ground water monitoring data available for this land application site? __Yes __No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)



- Provide a general location map for each county which clearly indicates the location of all the land application
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.) Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of

characteristics. Soil descriptions shall include as a minimum the following information.

- 1) Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- In order to verify the information provided in item d, characterize the soil at each land application site. e. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - Soil symbol 1).
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)

f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

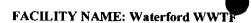
Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.



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SEWAGE SLUDGE APPLICATION AGREEMENT

This refer	sewage sludge application agreement is made on the red to here as "landowner", and	is date			
Land	lowner is the owner of agricultural land shown on the	ne map attached as Exhibit A and designated there as			
certa by V	in permit requirements following application of sew PDES permit number which i	age sludge on landowner's land in amounts and in a manner authorized			
cond publi	itioning to the property. Moreover, landowner ack	on of sewage sludge will be beneficial in providing fertilizer and soil mowledges having been expressly advised that, in order to protect ered to when sewage sludge receives Class B treatment for pathogen			
1.	Food crops with harvested parts that touch the s not be harvested for 14 months after application	sewage sludge/soil mixture and are totally above the land surface shall of sewage sludge;			
2.	Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application sewage sludge when the sewage sludge remains on the land surface for four months or longer prior to incorporation into the soil;				
3.	Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than four months prior to incorporation into the soil;				
4.	Food crops, feed crops, and fiber crops shall no	t be harvested for 30 days after application of sewage sludge;			
5.	Animals shall not be grazed on the land for 30 c	lays after application of sewage sludge;			
6.	Turf grown on land where sewage sludge is applied shall not be harvested for one year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the State Water Control Board;				
7.	Public access to land with a high potential for public exposure shall be restricted for one year after application of sewage sludge;				
8.	Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.				
9.	Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of sewage sludge borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45 pounds/acre).				
speci	ittee agrees to notify landowner or landowner's desi fically prior to any particular application to landown on notice to the address specified below.	gnee of the proposed schedule for sewage sludge application and ner's land. This agreement may be terminated by either party upon			
	Landowner:	Permittee:			
	Signature	Signature			
	Mailing Address	Mailing Address			

SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1.	Information on Active Sewage Sludge Units.						
	a.	Unit name or number:					
	b.	Unit location					
		i. Street or Route#:					
		County:					
		City or Town: State: Zip:					
		ii. Latitude: Longitude:					
		Method of latitude/longitude determination					
		USGS map Filed survey Other					
		c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is					
		unavailable) that shows the site location.					
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:					
		dry metric tons.					
		e. Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the					
		unit: dry metric tons.					
	f.	unit: dry metric tons. Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of					
		1 x 10 ⁻⁷ cm/sec?YesNo If yes, describe the liner or attach a description.					
	g.	Does the active sewage sludge unit have a leachate collection system?YesNo					
		If yes, describe the leachate collection system or attach a description. Also, describe the method used for					
		leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:					
	h.	If you answered no to either f or g, answer the following:					
		Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface					
		disposal site?YesNo If yes, provide the actual distance in meters:					
	i.	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons					
	••	Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)					
		Provide with this application a copy of any closure plan developed for this active sewage sludge unit.					
		110 1100 with and appreciation a copy of any closure plan developed for any active sewage studge unit.					
2.	Sewa	ge Sludge from Other Facilities.					
	Is sev	vage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo					
	If yes	, provide the following information for each such facility, attach additional sheets as necessary.					
	a.	Facility name:					
	b.	Facility contact:					
		Title:					
		Phone: ()					
	c.	Mailing address.					
		Street or P.O. Box:					
		City or Town: State: Zip:					
	d.	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other					
		federal, state or local permits that regulate the facility's sewage sludge management practices:					
		Permit Number: Type of Permit:					
	e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?					
		Class AClass BNeither or unknown					
	f.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to					
		reduce pathogens in sewage sludge:					

FACILITY NAME: Waterford WWTF

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	g.	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown				
	h.	Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:				
	i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:				
3.	Vector Attraction Reduction.					
	a.	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit? Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Option 11 (Covering active sewage sludge unit daily)				
	b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:				
4.	Ground Water Monitoring.					
	a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit?YesNo If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.				
	b.	Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNo If yes, submit a copy of the ground water monitoring program with this application.				
	c.	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo If yes, submit a copy of the certification with this application.				
5.	Are you	ecific Limits. I seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? No If yes, submit information to support the request for site-specific pollutant limits with this application.				

